

**MATERIALS LICENSE**

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 38, 40, and 70, and in reliance on statements and representations herefore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 163 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with the letter dated January 27, 2005,	
1. U. S. Department of Agriculture Office of Procurement & Property Management Radiation Safety Staff 2. Mailstop 5510 5601 Sunnyside Avenue Beltsville, Maryland 20705-1500		3. License number 19-00915-06 is amended in its entirety to read as follows: 4. Expiration date, September 30, 2005 5. Docket No. 030-06923 Reference No.	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Cesium 137	A. Sealed sources (As specified in Attachment for Item 9, to the licensee's application dated October 17, 1994)	A. See Condition 12. Total activity of all sources not to exceed 349,200 curies.	
B. Cobalt 60	B. Sealed sources (As specified in Attachment for Item 9, to the licensee's application dated October 17, 1994)	B. See Condition 12. Total activity of all sources not to exceed 108,500 curies.	
C. Cesium 137	C. Sealed sources (J. L. Shepherd Model 6810)	C. Eighteen sources, not to exceed 42,000 curies total	
9. Authorized use:			
A. and B. For use in the irradiators specified in Attachment for Item 9, of the licensee's application dated October 17, 1994, for irradiation studies of lower animals, insects, plants, seeds, chemicals and other agricultural products, and insect sterilization. C. For use in the Hueman Model 521 Irradiator, Serial Number 008, only.			

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Device or Reference Number 030-08923
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**CONDITIONS**

10. Licensed material shall be used only at the licensee's facilities and locations specified in Attachment for Item 9. of the licensee's application dated October 17, 1994 and other facilities of the licensee anywhere in the United States as authorized by the licensee's Radiation Safety Committee.
11. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in letters dated March 10, 1987 and August 6, 1987, and have been designated in writing by the Radiation Safety Officer.
12. The Radiation Safety Officer for this licensee is John T. Jensen.
13. No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State, or, if the device does not have a certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State, no single source to exceed the maximum activity specified in Attachment for Item 9. of the licensee's application dated October 17, 1994.
14. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.  
B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.  
C. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

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- D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- E. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
16. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
17. The licensee shall not perform repairs or alterations of the irradiator involving removal of shielding or access to the licensed material. Removal, replacement, and disposal of sealed sources in the irradiator shall be performed by a person specifically licensed by the Commission or an Agreement State to perform such services.
18. The procedures contained in the manufacturer's instruction manual for the irradiator authorized by this license shall be followed and a copy of this manual shall be made available to each person using or having responsibility for the use of the device.
19. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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20. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated October 17, 1994  
C. Letter dated September 11, 1995  
E. Letter dated November 2, 1995  
G. Letter dated February 16, 1996  
I. Letter dated May 7, 1996  
K. Letter dated September 25, 1996  
M. Letter dated March 10, 1997  
O. Letter dated August 6, 1997
- B. Letter dated April 18, 1996  
D. Letter dated October 5, 1995  
F. Letter dated February 2, 1996  
H. Letter dated February 21, 1996  
J. Letter dated August 18, 1996  
L. Letter dated October 6, 1996 with attachments  
N. Letter dated April 24, 1997  
P. Letter dated August 29, 1997



For the U.S. Nuclear Regulatory Commission

Date March 21, 2001

By

*Original signed by Satar Lodhi, Ph.D.*

Satar Lodhi, Ph.D.  
Security and Industrial Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406

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